

Amendments to the Claims:

Claims 19 and 26 are cancelled, claims 30 to 33 are added and claims 16 to 18, 20, 23, 25 and 27 are amended as set forth below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1 to 15 (Cancelled).

16. (Currently Amended) A surgical microscope comprising:

a viewing unit for viewing an object and said viewing unit defining a viewing beam path;

an image projection module for ~~inputting image data into~~
5 ~~said viewing unit~~ supplying data in the form of a data image;

said image projection module including an image display unit for displaying said ~~image~~ data image;

an image recording module for recording said data image and
an object image of said object supplied by said viewing unit;
10 ~~and,~~

said image recording module ~~including:~~ including an image sensor ~~mounted to receive said image data from said image projection module;~~

~~an image recording~~ a beam splitter mounted in said viewing
15 beam path for receiving and passing said data image into said

viewing beam path and to said image sensor and for directing said object image of the object onto said image sensor;

said image sensor generating an image signal from both of said data image and said object image of said object for display
20 on a monitor;

a recording device for receiving said image signal and recording said ~~image data~~ image and said object image ~~of said object~~; and,

said recording device including an image mixer for receiving
25 both said ~~image data~~ image and said object image ~~of said object~~ as electronic image data in the form of said image signal and for mixing said electronic image data therein.

17. (Currently Amended) The surgical microscope of claim 16, wherein said image projection module includes a plano-convex lens and a plano-concave lens mounted downstream of said image display unit for transmitting said data image to said beam splitter.

18. (Currently Amended) The surgical microscope of ~~claim 16~~ claim 17, wherein said plano-convex lens has a first focal length and said plano-concave lens has a second focal length; and, the ratio of said first focal length and said second focal length
5 lies within a range from 1.9 to 2.5.

19. (Cancelled).

20. (Currently Amended) The surgical microscope of ~~claim 19~~ claim 18, wherein said plano-convex lens is a first plano-convex

lens; said image projection unit further includes a
concave-convex lens and a second plano-convex lens; and, said
5 first plano-convex lens, said plano-concave lens, said
concave-convex lens and said second plano-convex lens all are
arranged between said image display unit and said beam splitter.

21. (Previously Presented) The surgical microscope of claim 16,
wherein the brightness of said image display unit is increased by
providing a time-dependent sequential illumination of a
reflection display with only a single color.

22. (Previously Presented) The surgical microscope of claim 16,
wherein said image projection module has an input for receiving
said image data as electronic image data and said image mixer is
connected directly to said input for receiving said image data as
5 said electronic image data applied to said input.

23. (Currently Amended) A surgical microscope comprising:
a viewing unit for viewing an object and said viewing unit
defining a viewing beam path;
an image projection module for ~~inputting image data into~~
5 ~~said viewing unit~~ supplying data in the form of a data image;
said image projection module including an image display unit
for displaying said ~~image~~ data image;
an image recording module for recording said data image and
an object image of said object supplied by said viewing unit;
10 ~~and,~~
said image recording module ~~including an~~ including an image

~~sensor mounted to receive said image data from said image
projection module;~~

15 ~~an image recording a~~ beam splitter mounted in said viewing
beam path for receiving and passing said data image to said image
sensor and for directing said object image of the object onto
said image sensor;

20 said image sensor generating an image signal from both of
said data image ~~data~~ and ~~from~~ said object image ~~of said object~~
for display on a monitor;

a recording device connected to said image sensor for
receiving said image signal and recording said data image ~~data~~
and said object image ~~of said object~~; and,

25 a device for synchronizing the illumination of said image
display unit with said image sensor to avoid flickering.

24. (Previously Presented) The surgical microscope of claim 23,
wherein said image projection module includes a plano-convex lens
and a plano-concave lens mounted downstream of said image display
unit.

25. (Currently Amended) The surgical microscope of ~~claim 23~~
claim 24, wherein said plano-convex lens has a first focal length
and said plano-concave lens has a second focal length; and, the
ratio of said first focal length and said second focal length
5 lies within a range from 1.9 to 2.5.

26. (Cancelled).

27. (Currently Amended) The surgical microscope of ~~claim 26~~
claim 25, wherein said plano-convex lens is a first plano-convex
lens; said image projection unit further includes a
concave-convex lens and a second plano-convex lens; and, said
5 first plano-convex lens, said plano-concave lens, said
concave-convex lens and said second plano-convex lens all are
arranged between said image display unit and said beam splitter.

28. (Previously Presented) The surgical microscope of claim 23,
wherein the brightness of said image display unit is increased by
providing a time-dependent sequential illumination of a
reflection display with only a single color.

29. (Previously Presented) The surgical microscope of claim 23,
wherein said image display unit includes a reflection display
illuminated sequentially with different colors as a function of
time.

30. (New) The surgical microscope of claim 23, wherein said
image sensor is a single image sensor.

31. (New) A surgical microscope comprising:

a viewing unit for viewing an object and said viewing unit
defining a viewing beam path;

5 an image projection module for supplying data in the form of
a data image;

said image projection module including an image display unit
for displaying said data image;

an image recording module for recording said data image and
an object image of said object supplied by said viewing unit;

10 said image recording module including an image sensor;

 a beam splitter mounted in said viewing beam path for
receiving and passing said data image to said image sensor and
for directing said object image onto said image sensor;

 said image sensor generating an image signal from both of
15 said data image and said object image for display on a monitor;
and,

 a recording device connected to said image sensor for
receiving said image signal and recording said data image and
said object image.

32. (New) The surgical microscope of claim 31, wherein said
beam splitter is a first beam splitter; and, said surgical
microscope further comprises a second beam splitter interposed
between said first beam splitter and said image sensor so as to
5 permit an additional viewer to view said data image and said
object image.

33. (New) The surgical microscope of claim 32, further
comprising a device for synchronizing the illumination of said
image display unit with said image sensor to avoid flickering.